



FIG. 1A

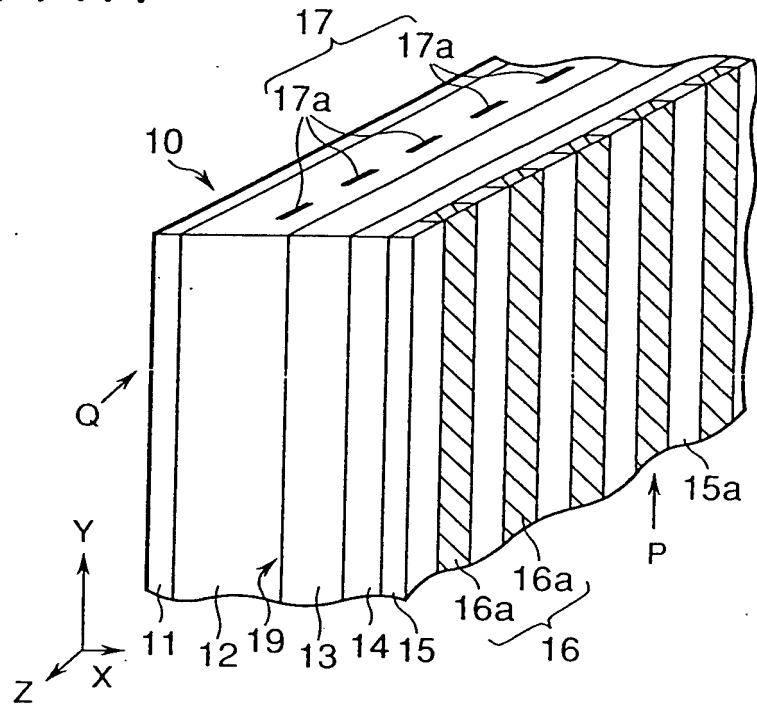


FIG. 1B

X-Z SECTION

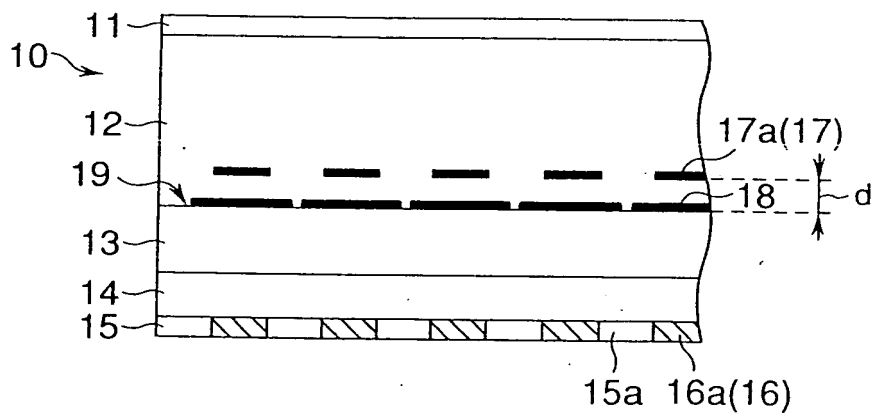
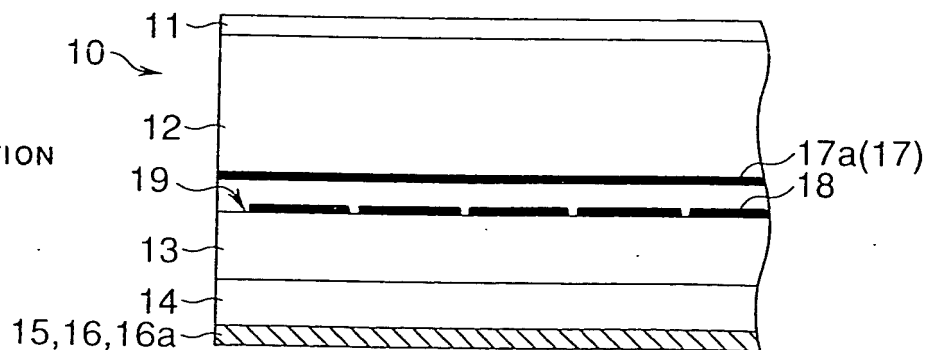


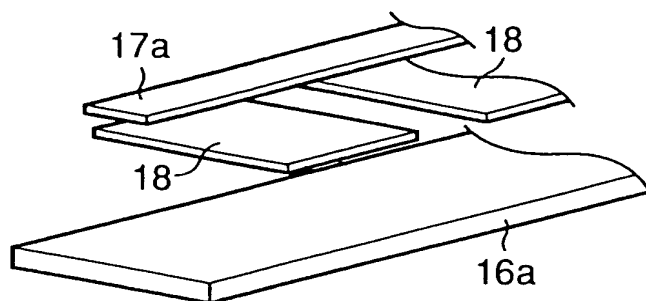
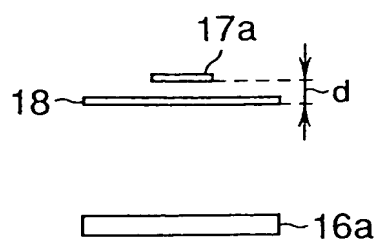
FIG. 1C

X-Y SECTION

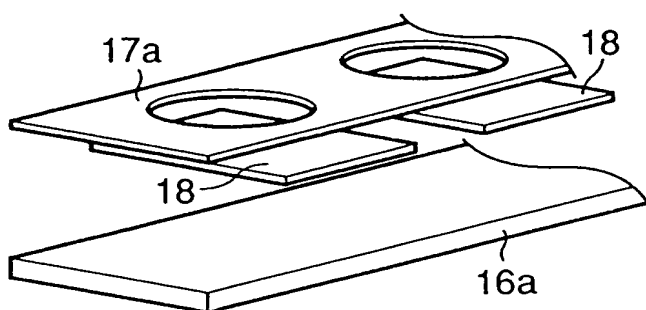
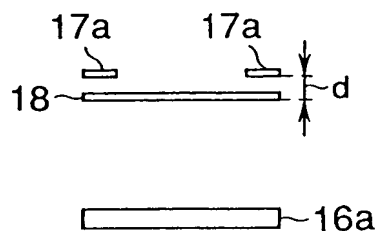




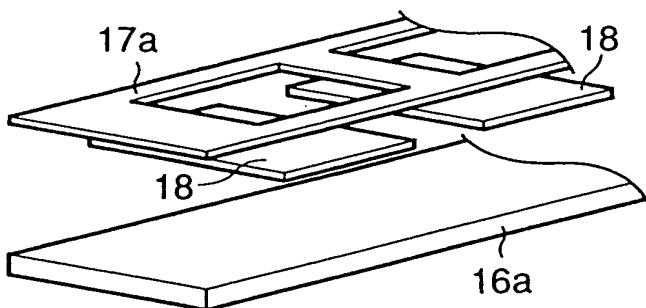
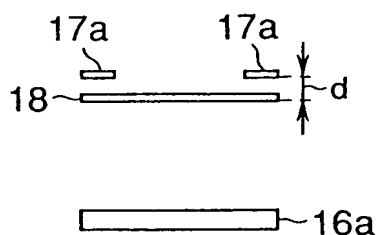
F I G . 2 A



F I G . 2 B



F I G . 2 C



F I G . 2 D

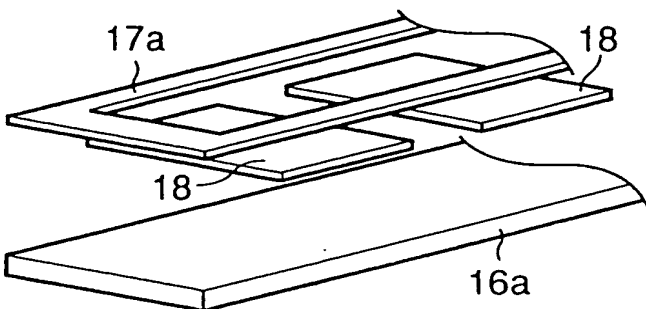
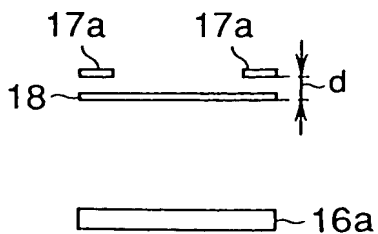




FIG. 3A

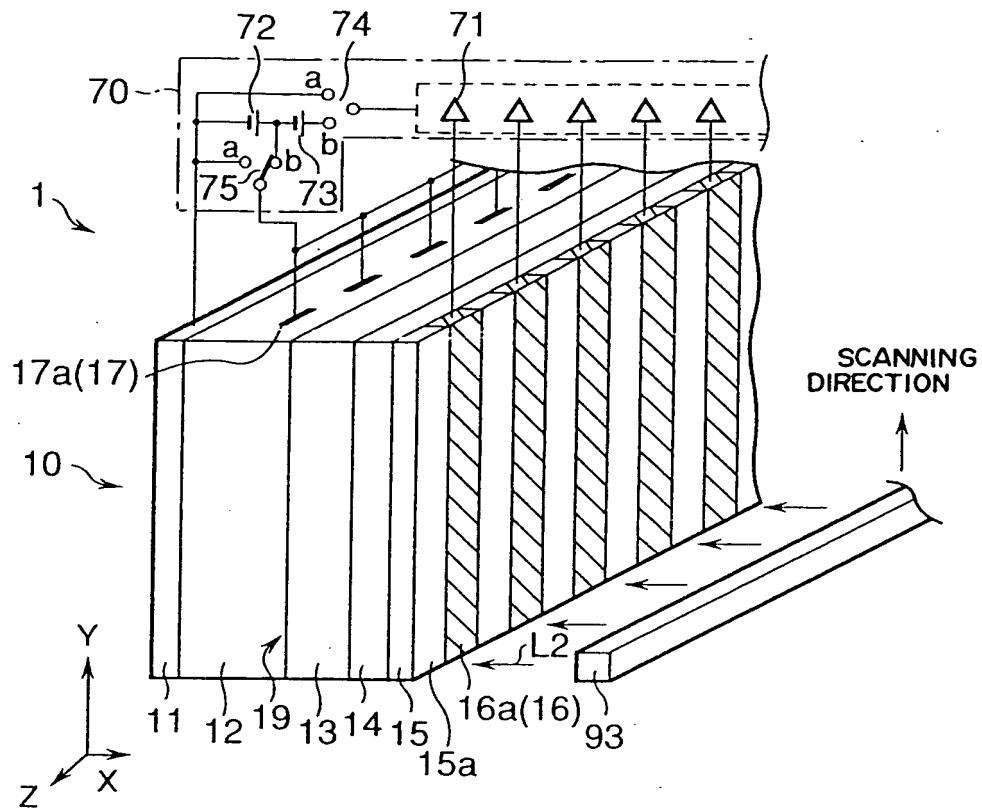
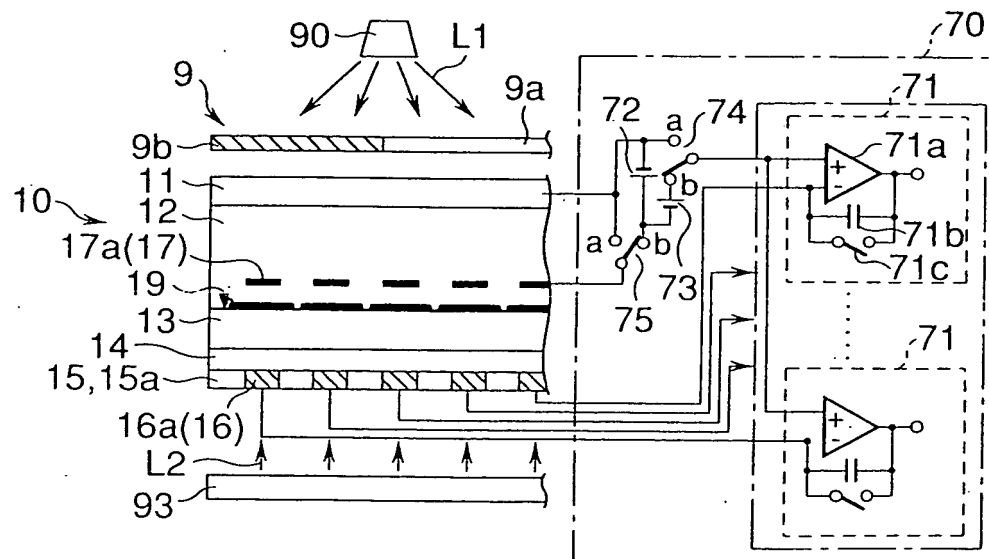
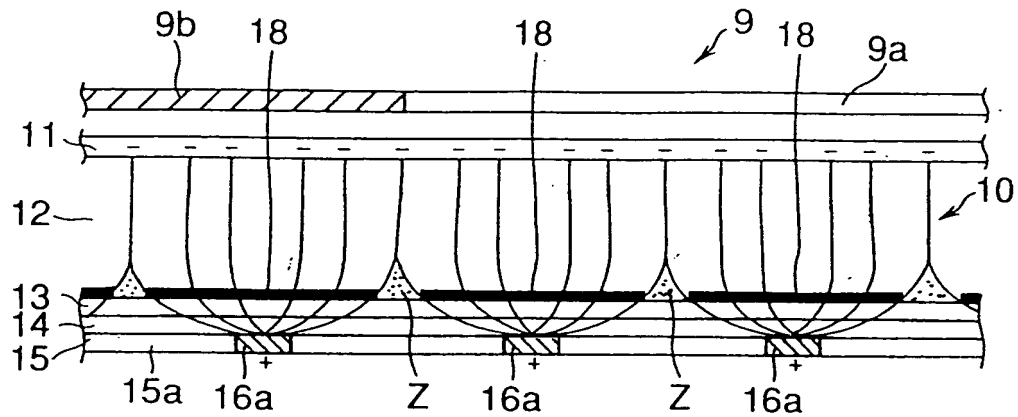
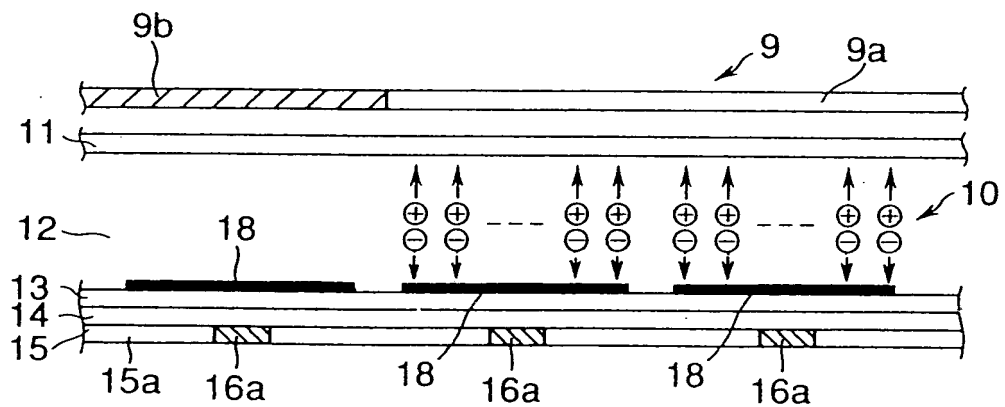
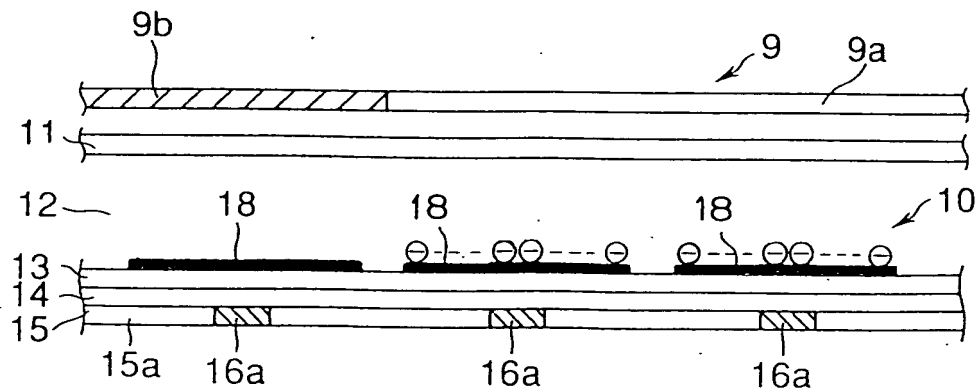


FIG. 3B



**FIG. 4A****FIG. 4B****FIG. 4C**

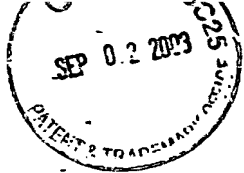


FIG. 5A

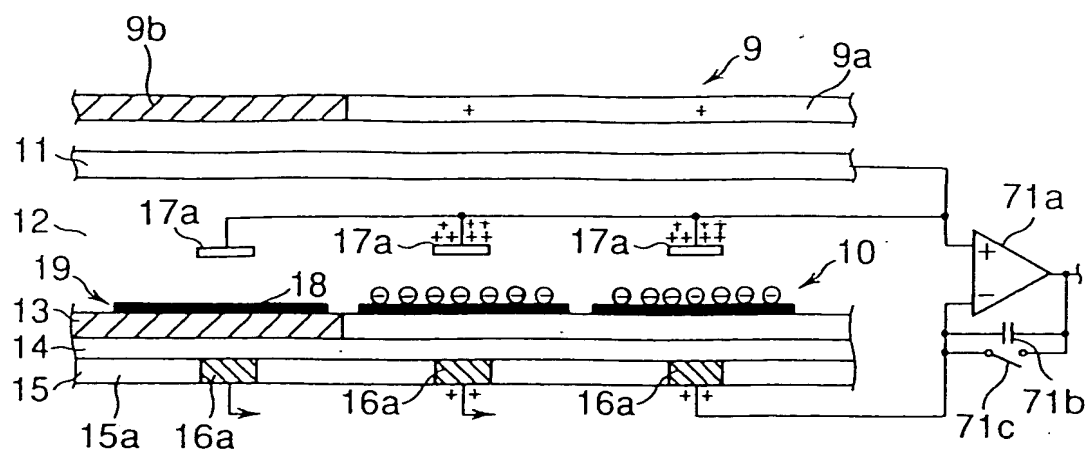


FIG. 5B

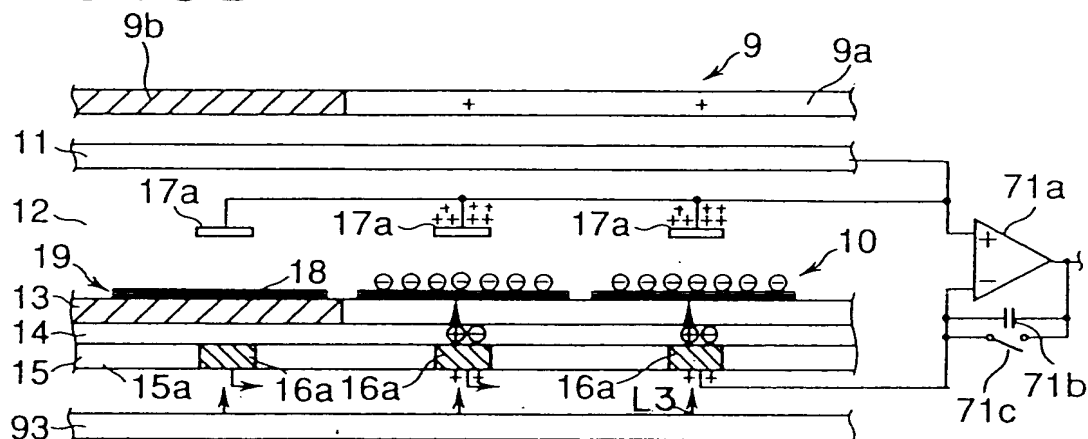
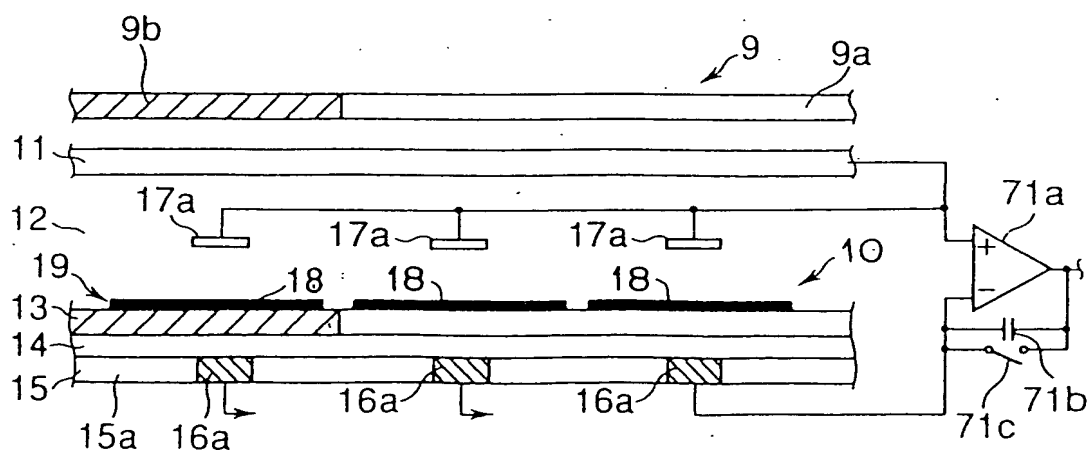
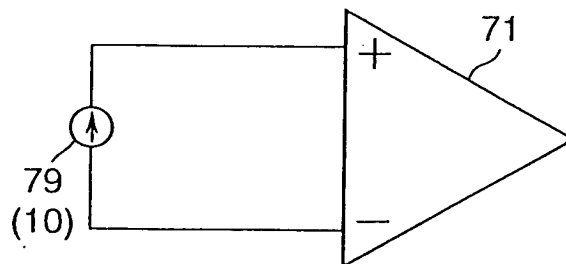


FIG. 5C

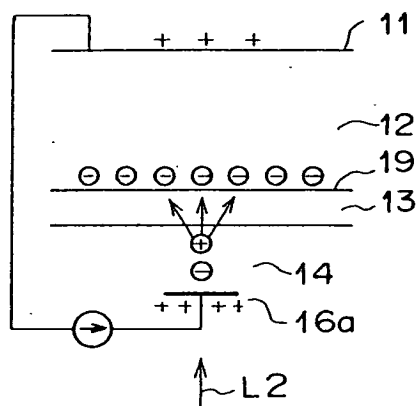




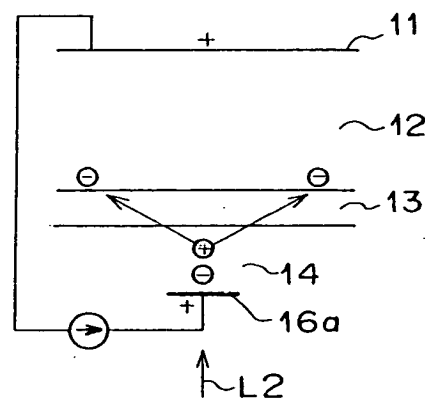
F I G . 6



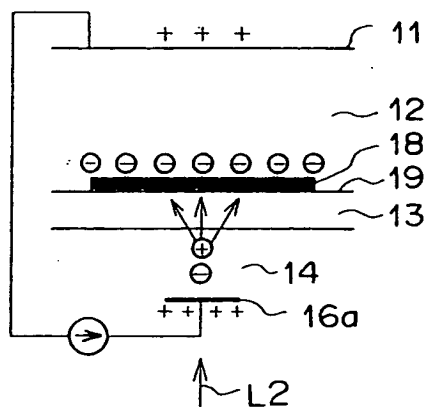
F I G . 7A



F I G . 7B



F I G . 7C



F I G . 7D

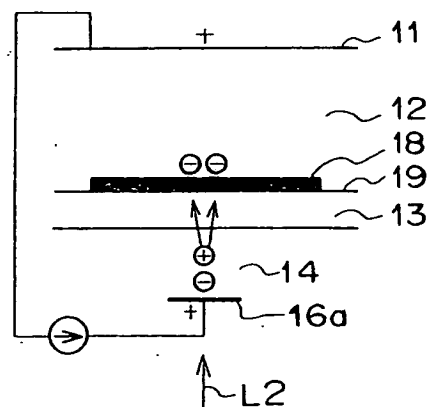
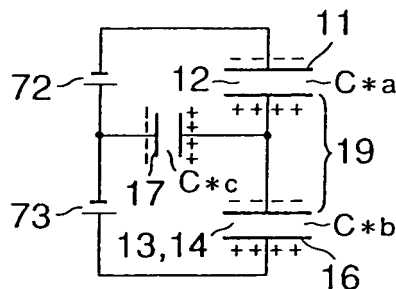




FIG. 8A



PERMEATING
PORTION

SHADING
PORTION

FIG. 8B

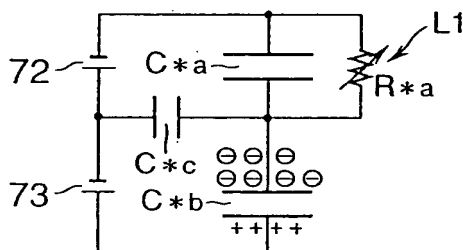


FIG. 8E

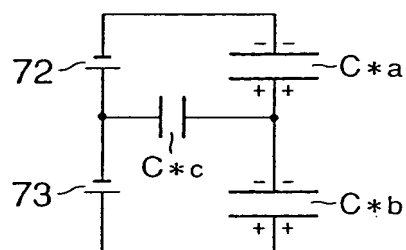


FIG. 8C

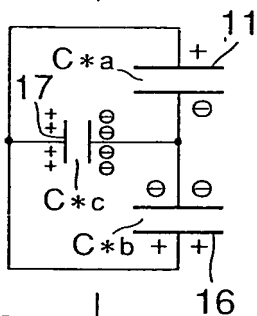


FIG. 8F

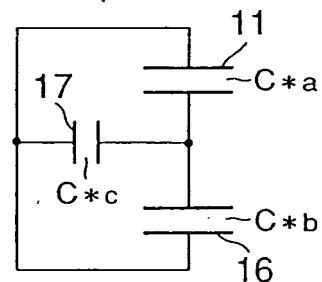


FIG. 8D

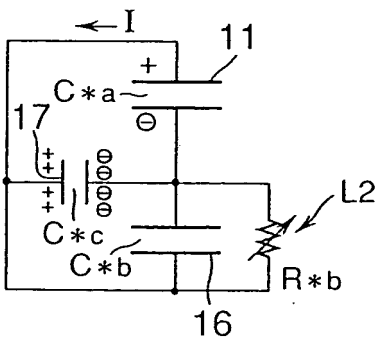
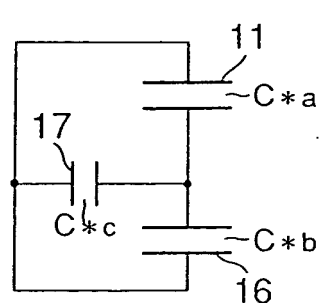
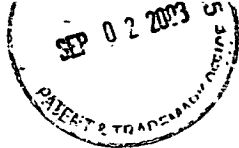
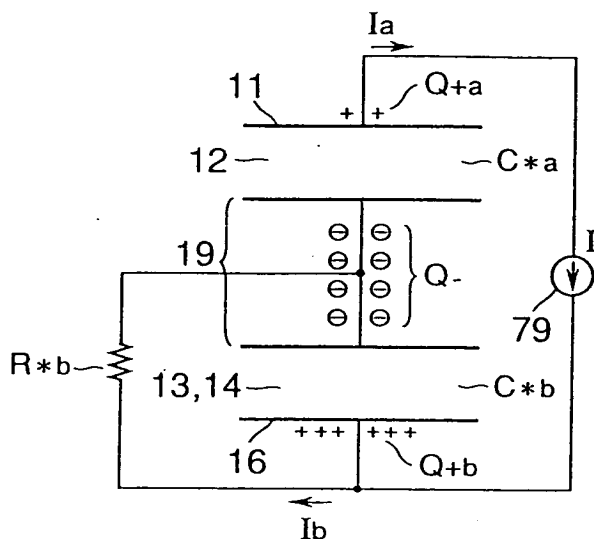


FIG. 8G





F I G . 9A



$$C_a \ll C_b$$

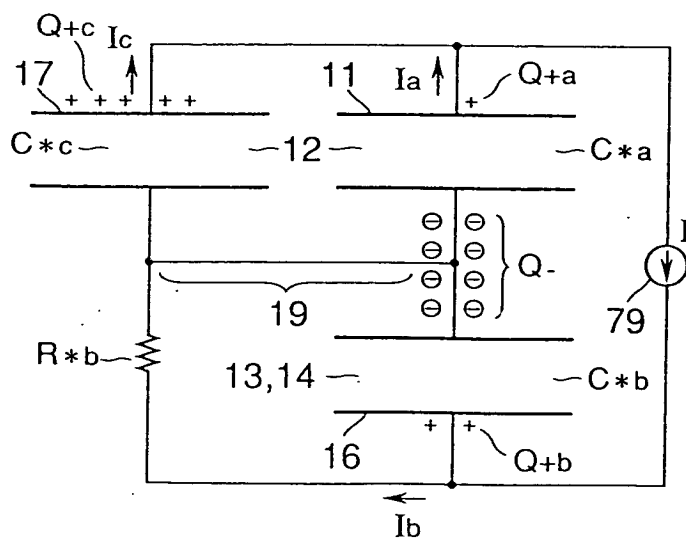
$$Q_- = Q_+ \\ = Q_{+a} + Q_{+b}$$

$$Q_{+a} = Q_+ \times \frac{C_a}{C_a + C_b}$$

$$Q_{+b} = Q_+ \times \frac{C_b}{C_a + C_b}$$

$$I = I_a$$

F I G . 9B



$$C_a \ll C_c$$

$$C_b < C_c$$

$$Q_- = Q_+ \\ = Q_{+a} + Q_{+b} + Q_{+c}$$

$$Q_{+a} = Q_+ \times \frac{C_a}{C_a + C_b + C_c}$$

$$Q_{+b} = Q_+ \times \frac{C_b}{C_a + C_b + C_c}$$

$$Q_{+c} = Q_+ \times \frac{C_c}{C_a + C_b + C_c}$$

$$I = I_a + I_c$$



FIG. 10A

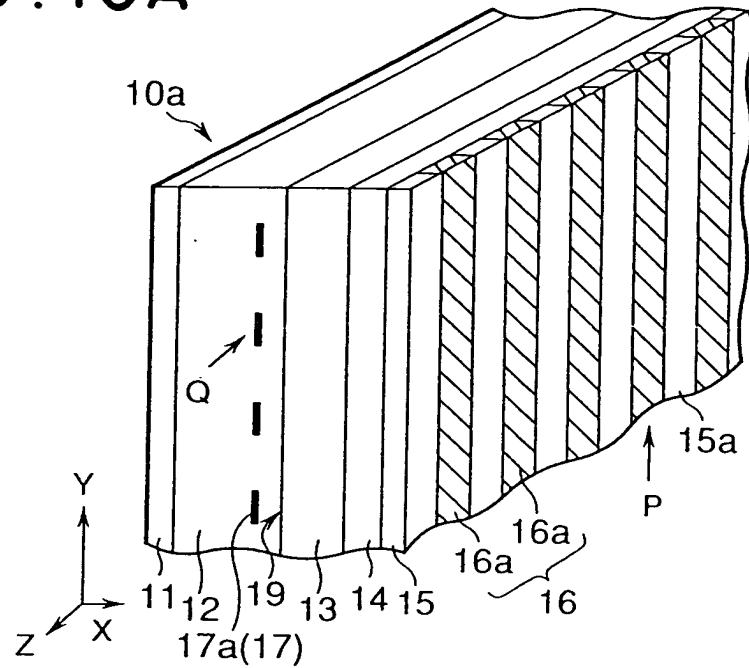


FIG. 10B

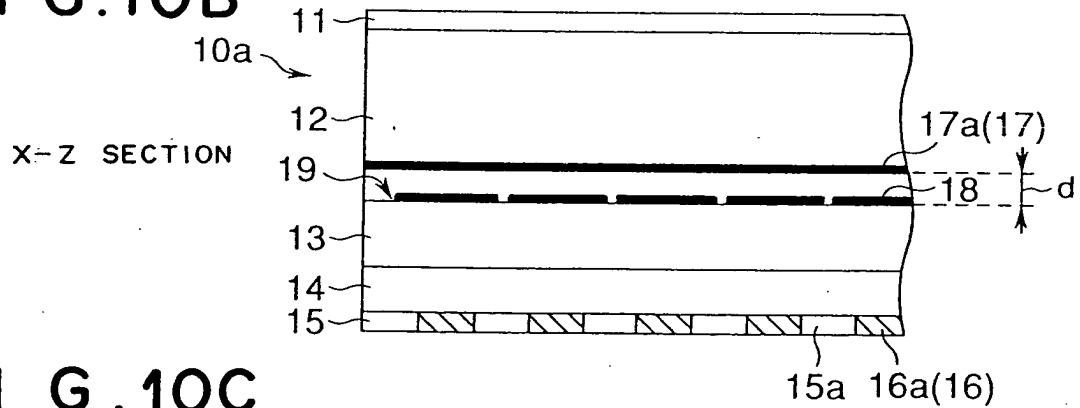
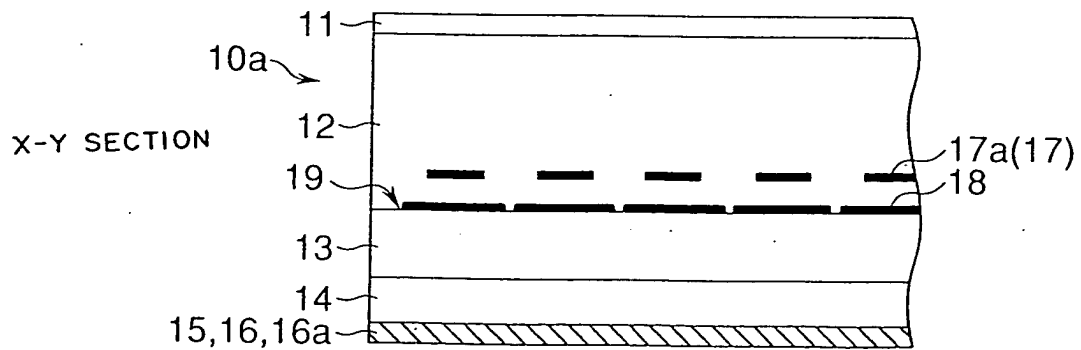
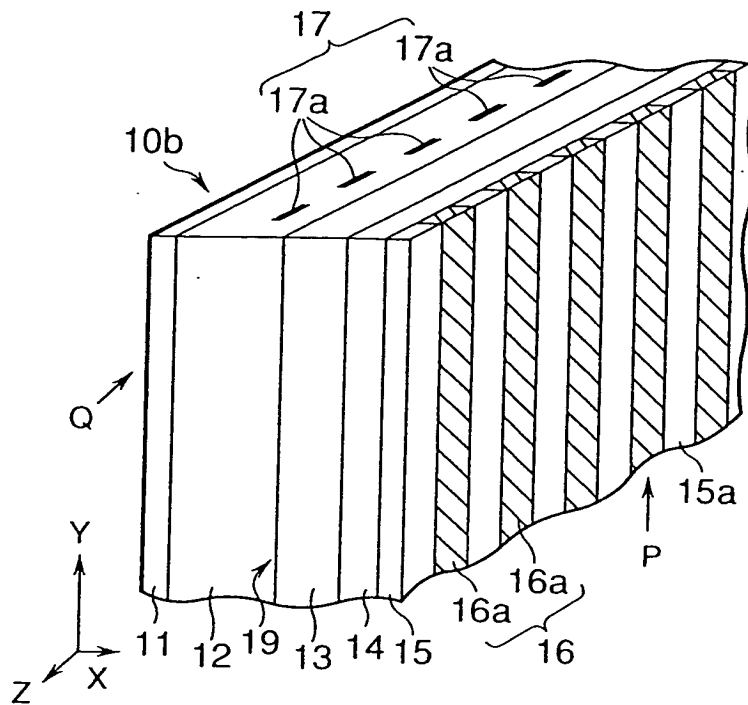


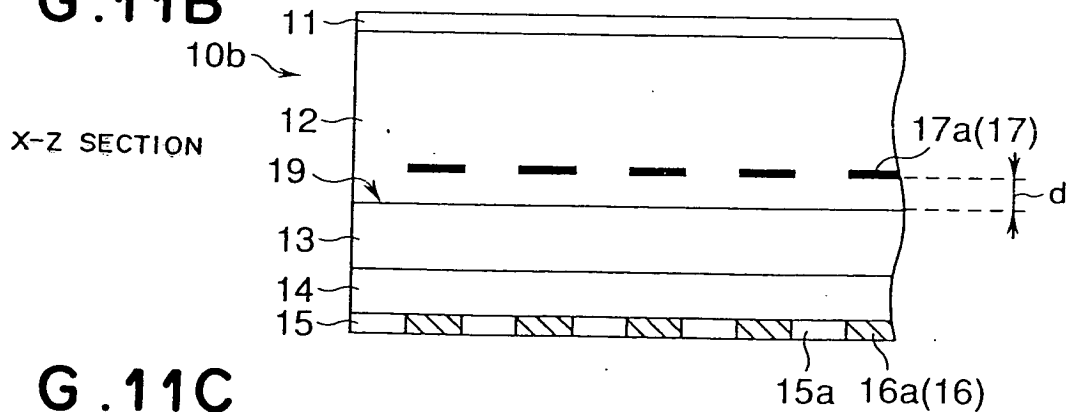
FIG. 10C



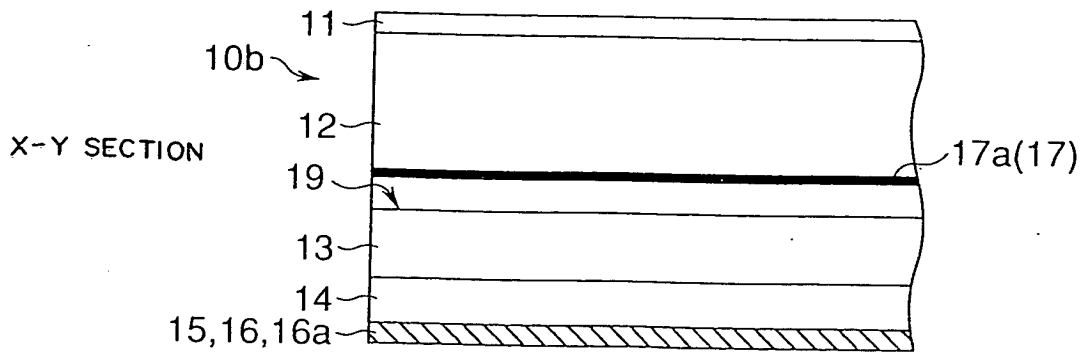
F I G . 1 1 A



F I G . 1 1 B

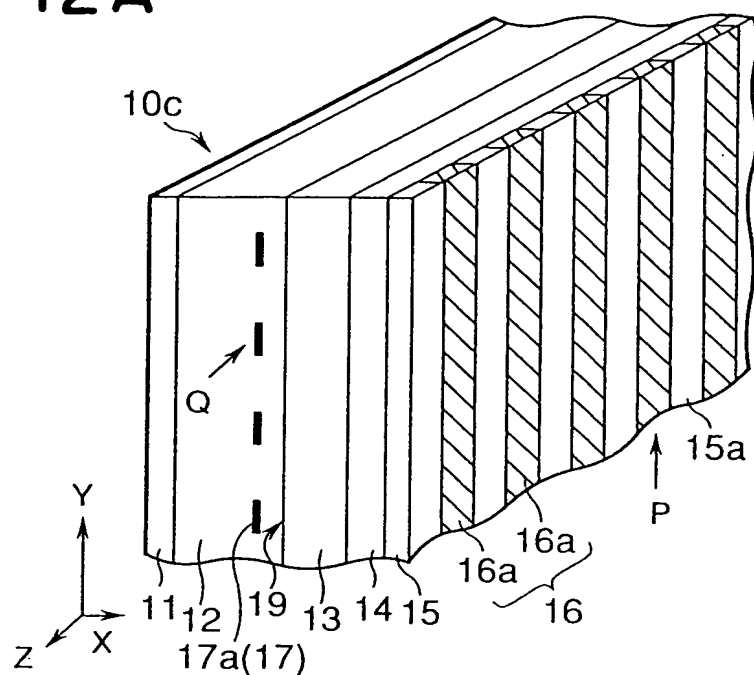


F I G . 1 1 C

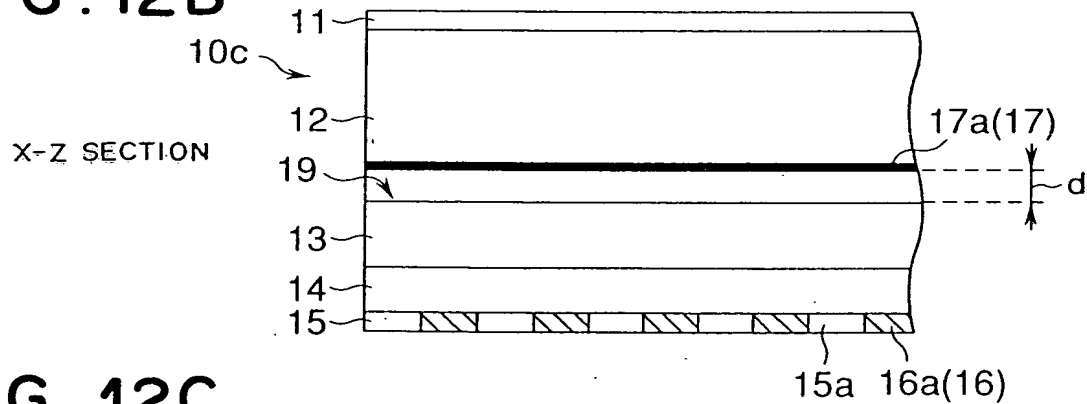




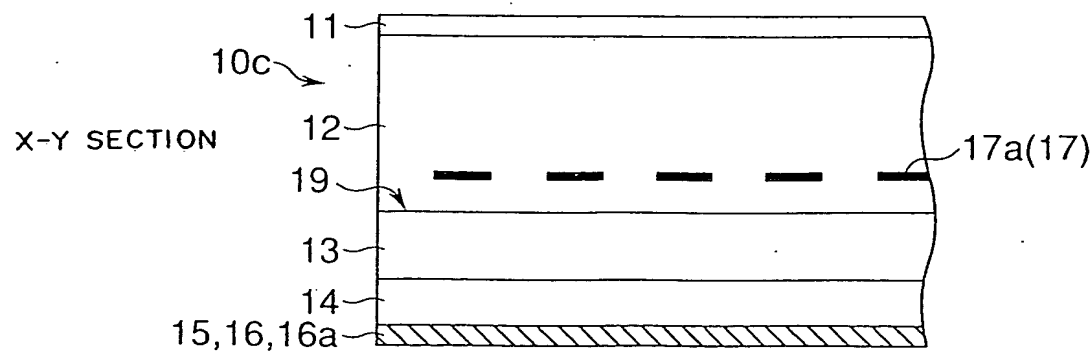
F I G . 12A



F I G . 12B

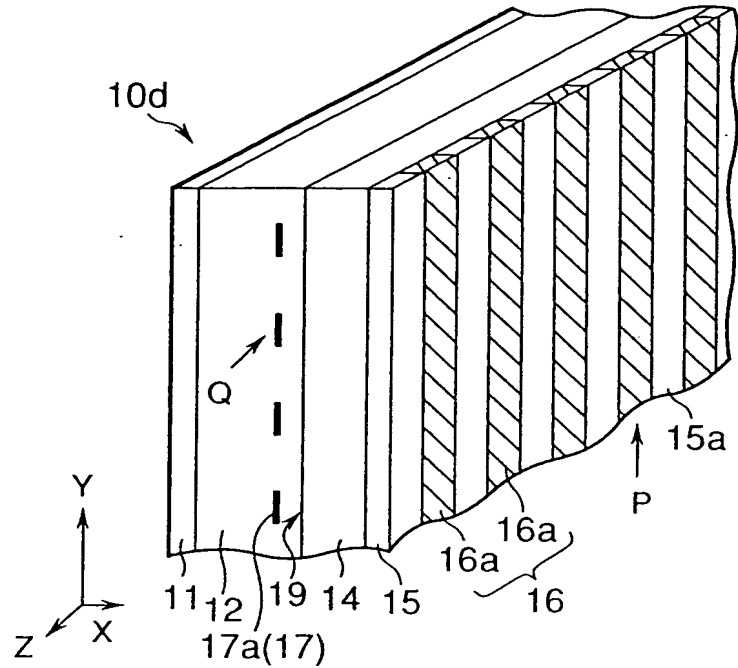


F I G . 12C

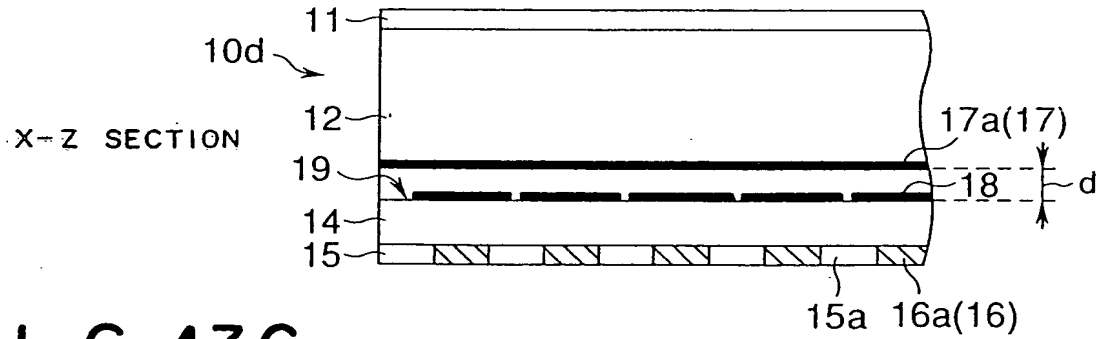




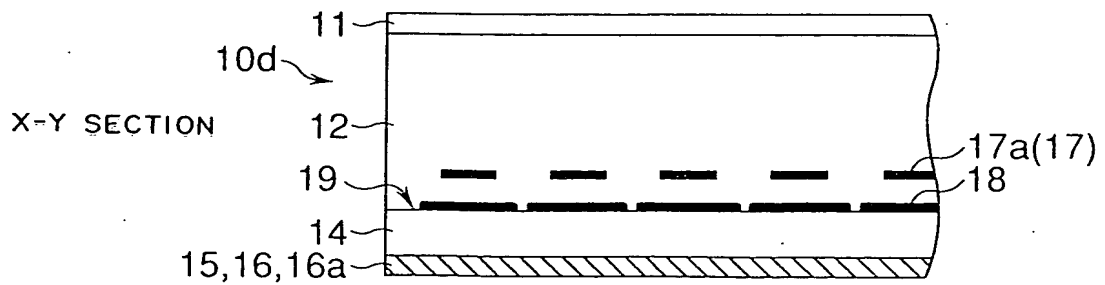
F I G . 13A

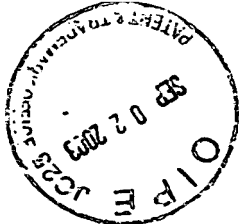


F I G . 13B

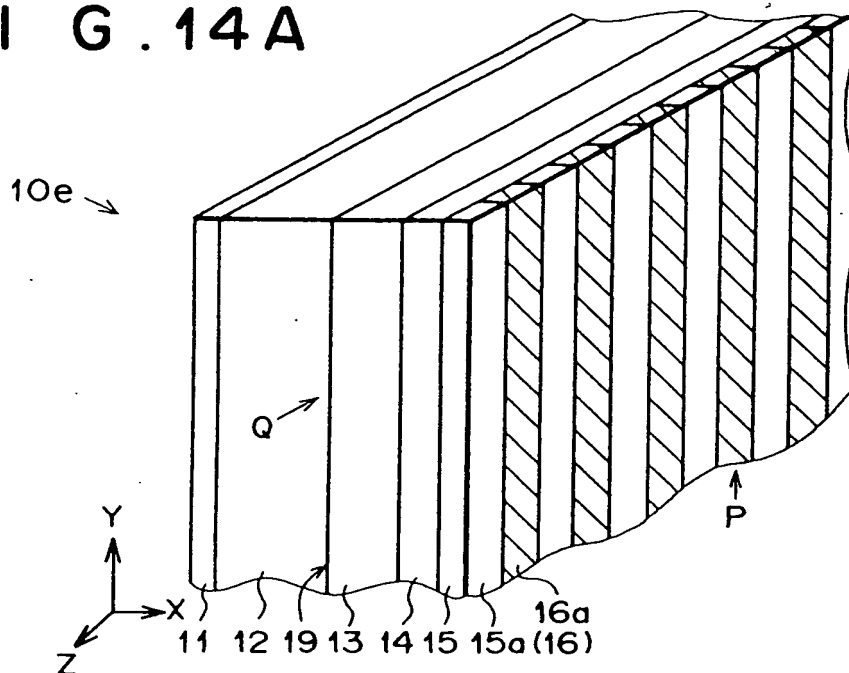


F I G . 13C

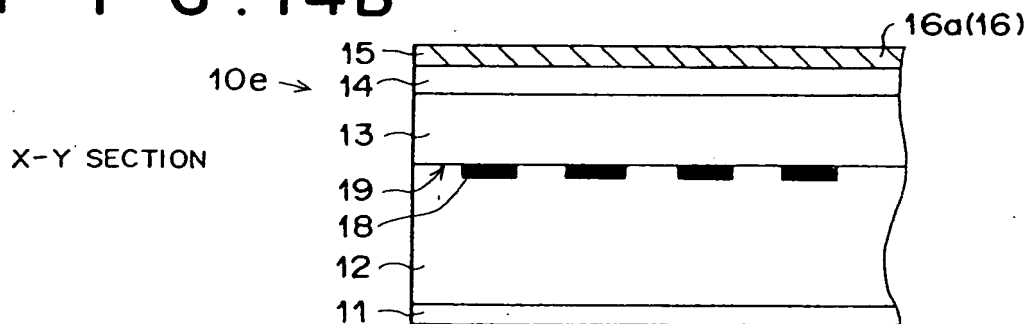




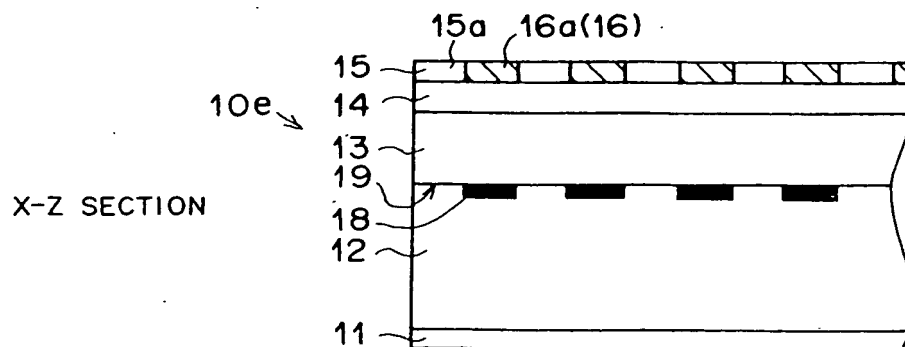
F I G . 14 A



F I G . 14 B

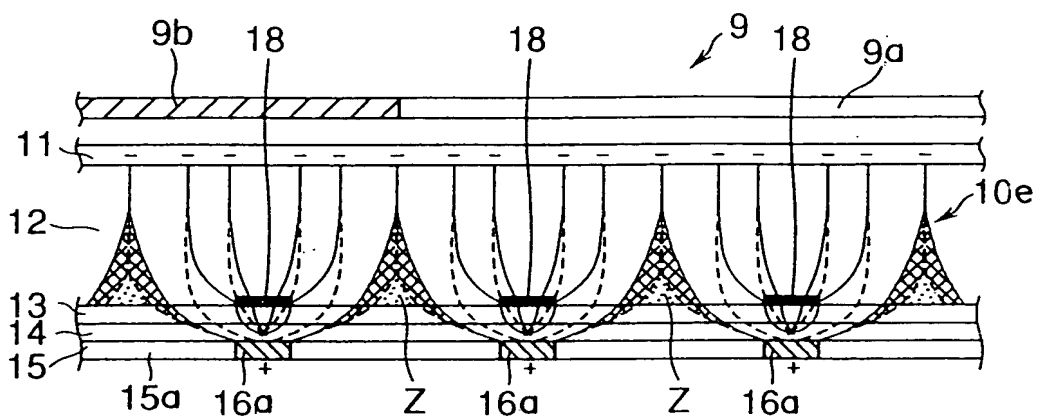


F I G . 14 C

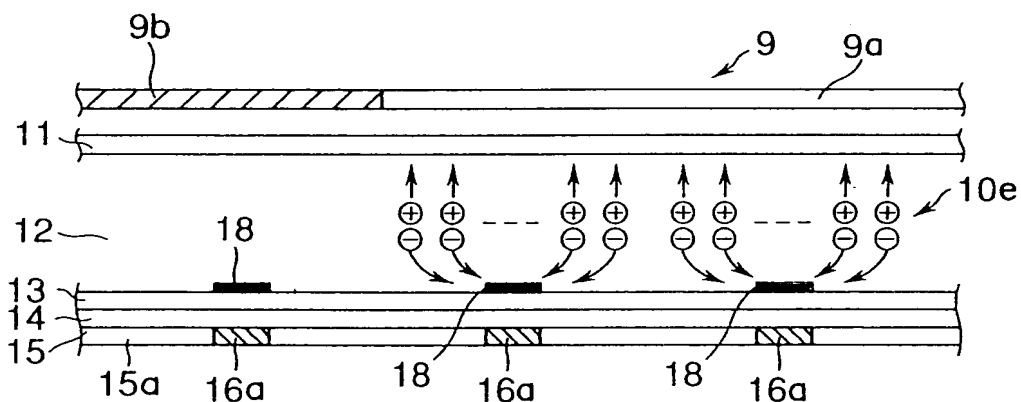




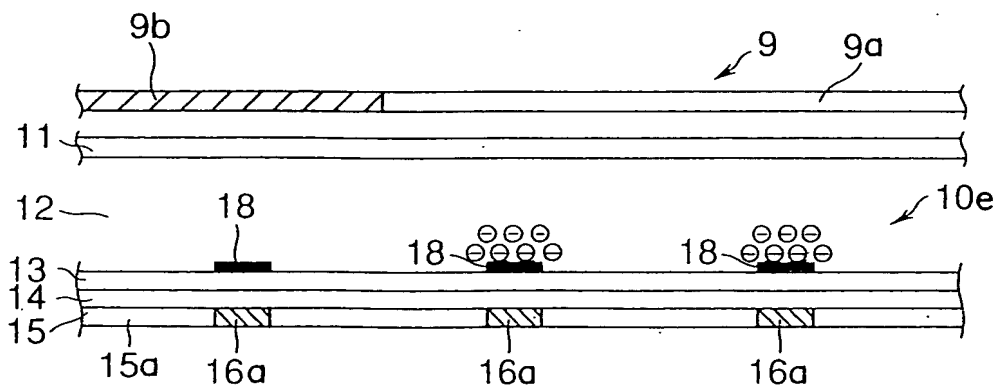
F I G . 15A

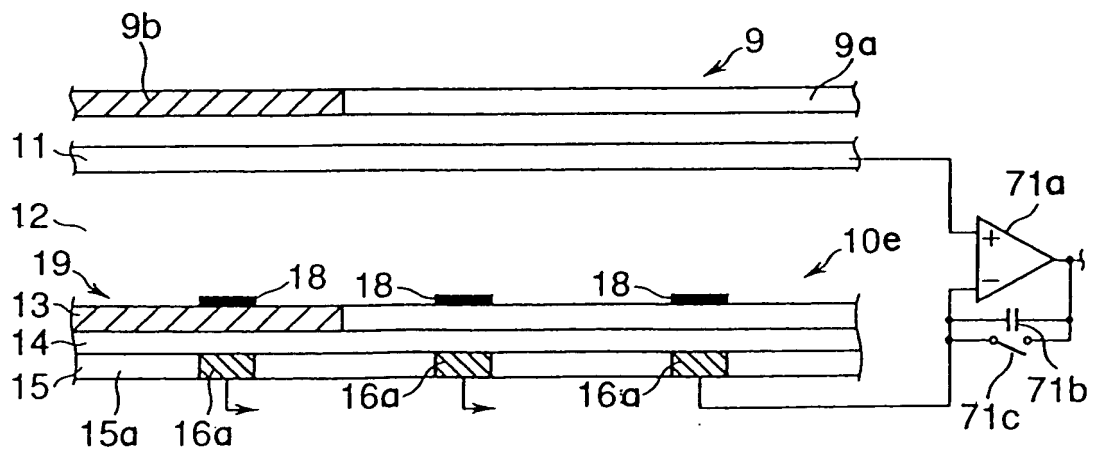
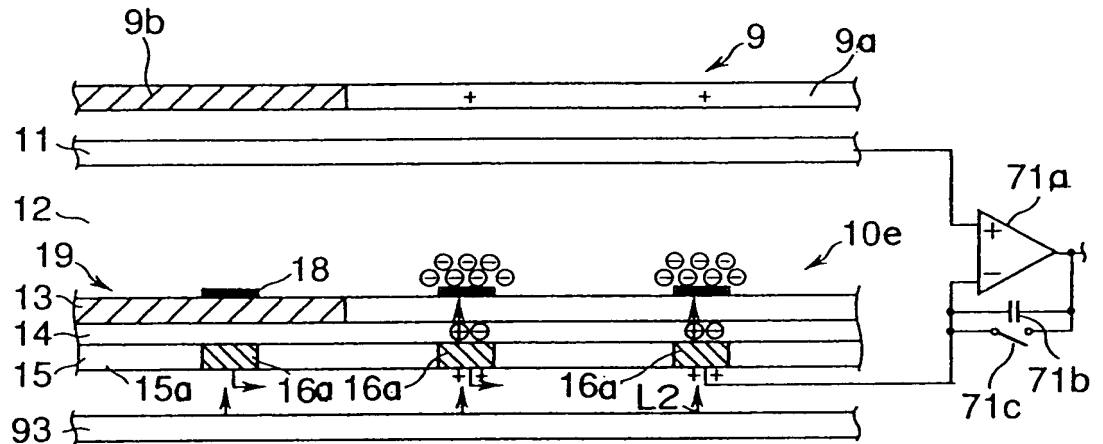
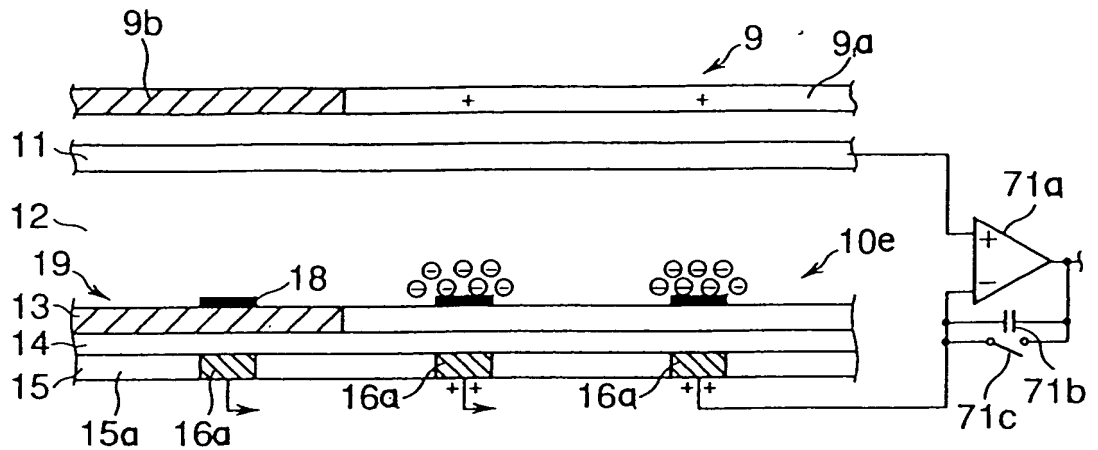


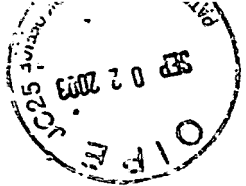
F I G . 15B



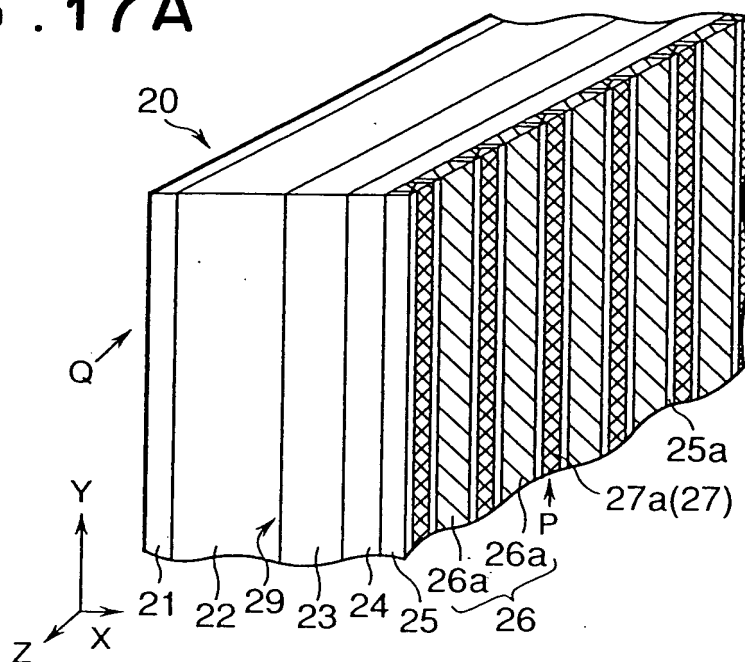
F I G . 15C



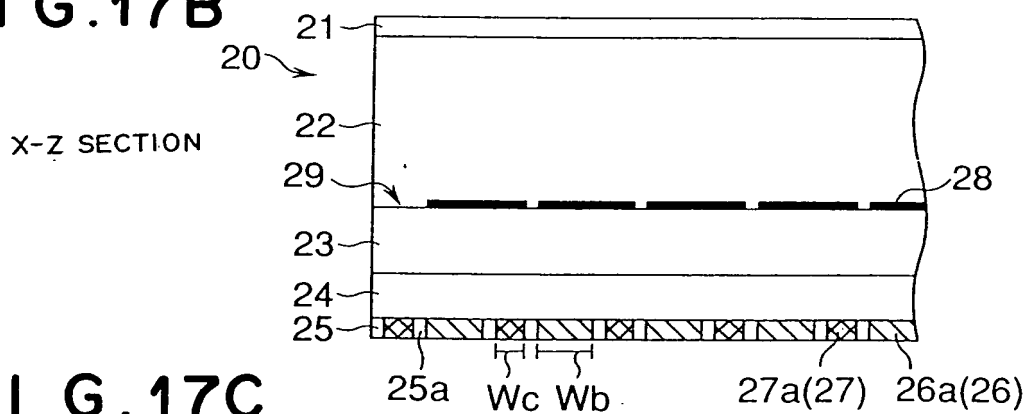




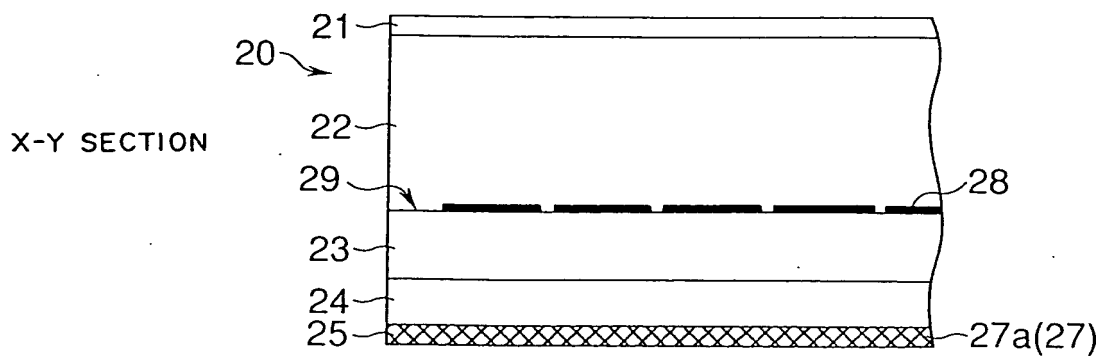
F I G . 17 A



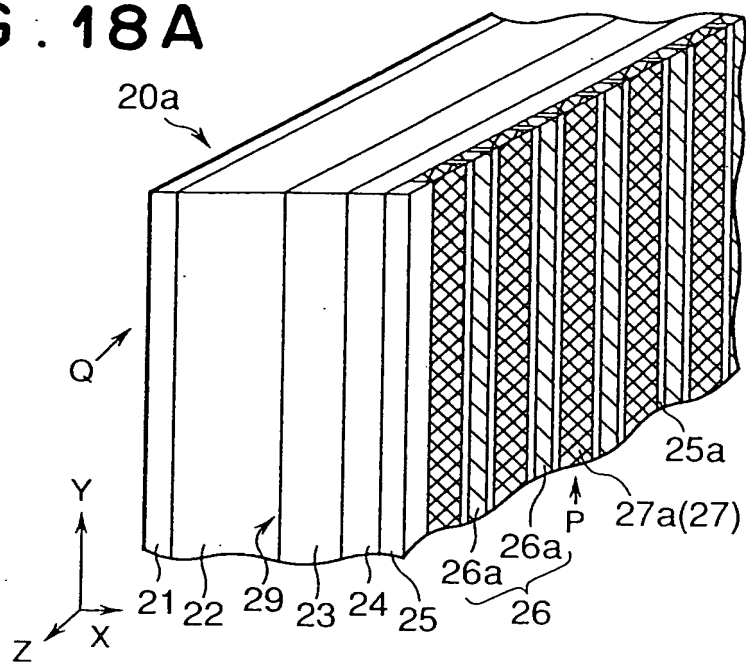
F I G . 17 B



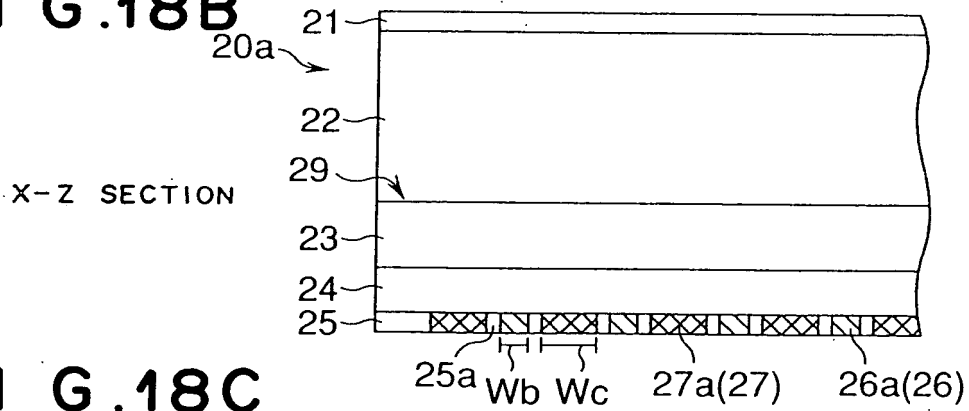
F I G . 17 C



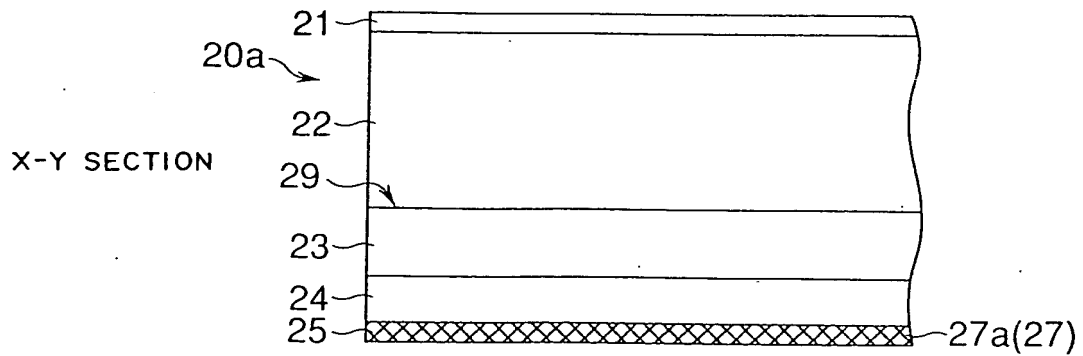
F I G . 18A



F I G . 1 8 B

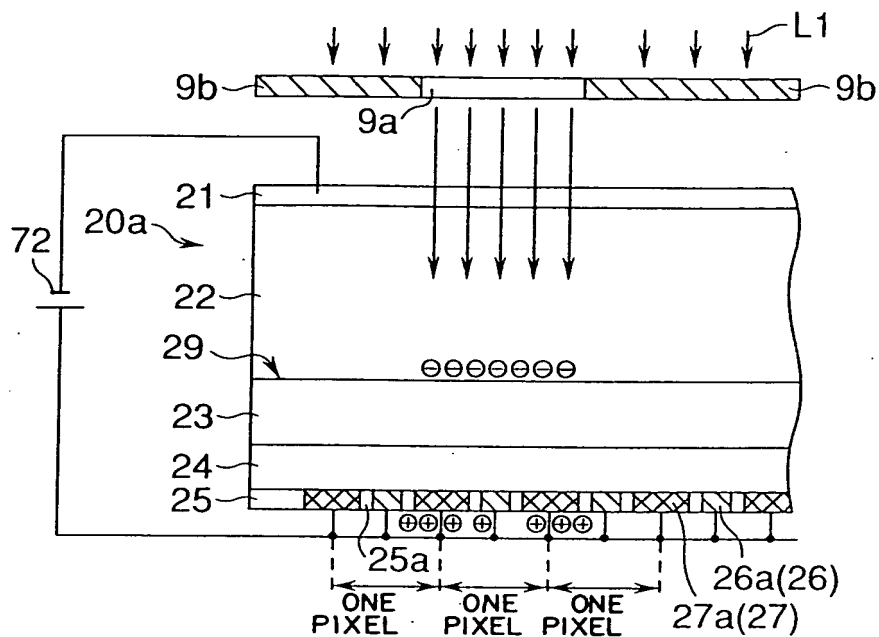


F I G . 18 C

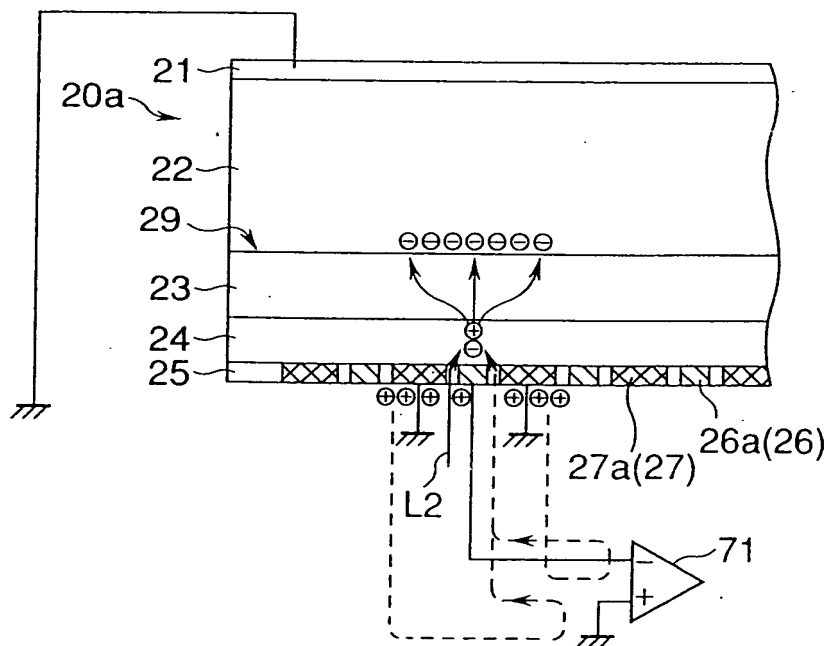


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 SEP 02 2003
 010

F I G . 19 A

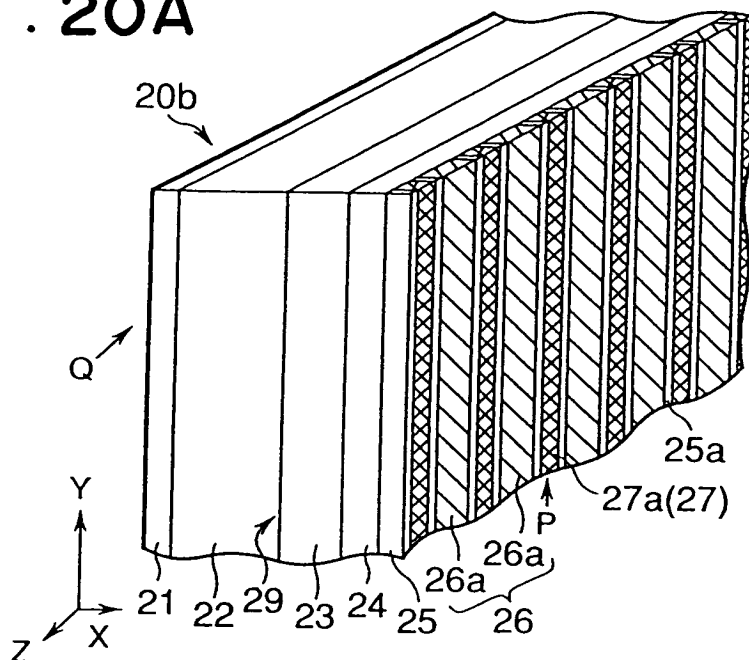


F I G . 19 B



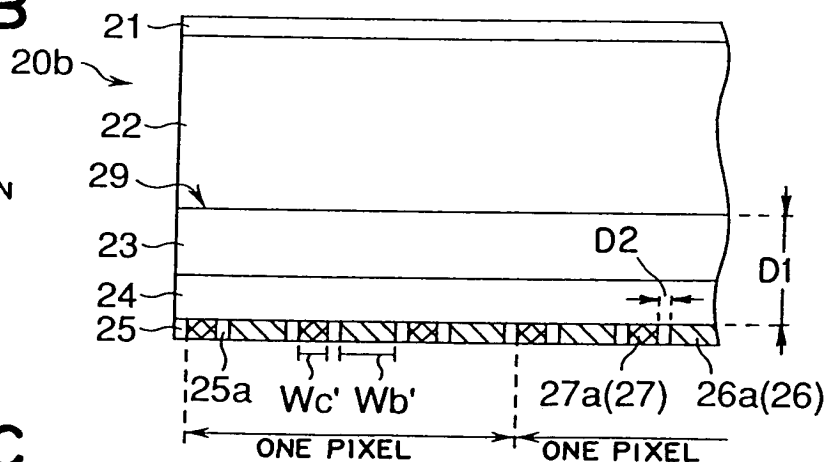


F I G . 20A



F I G . 20B

X-Z SECTION



F I G . 20C

X-Y SECTION

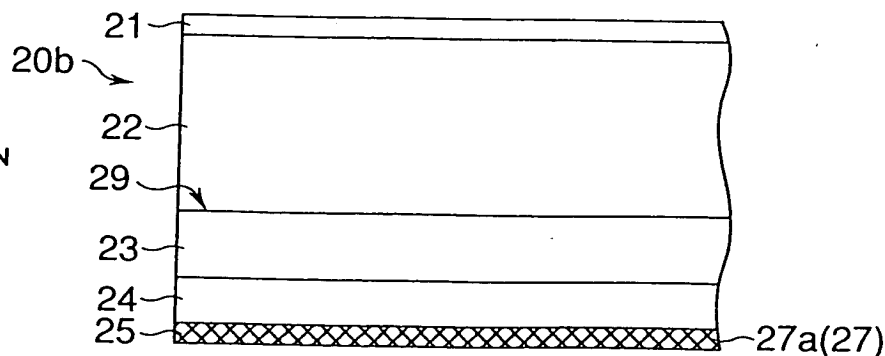




FIG. 21A

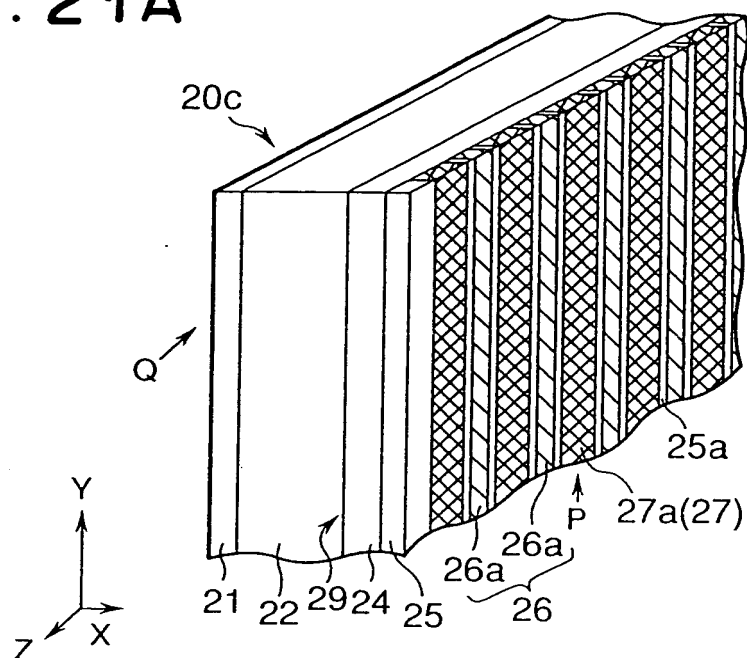


FIG. 21B

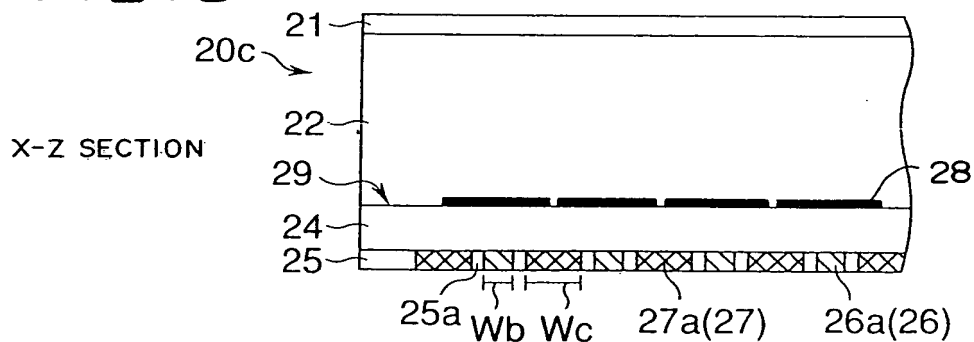
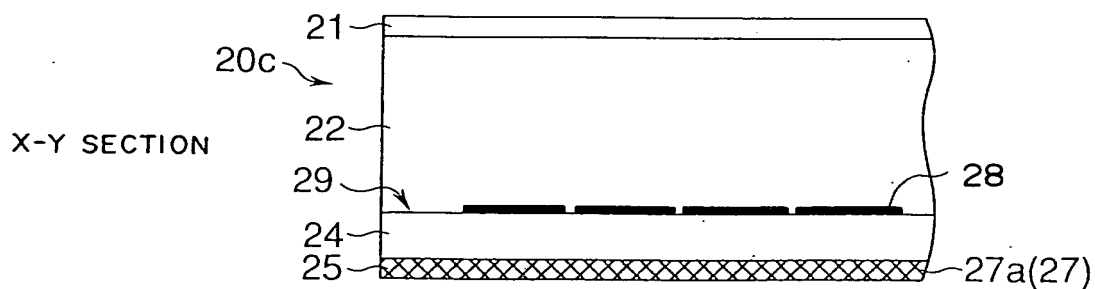
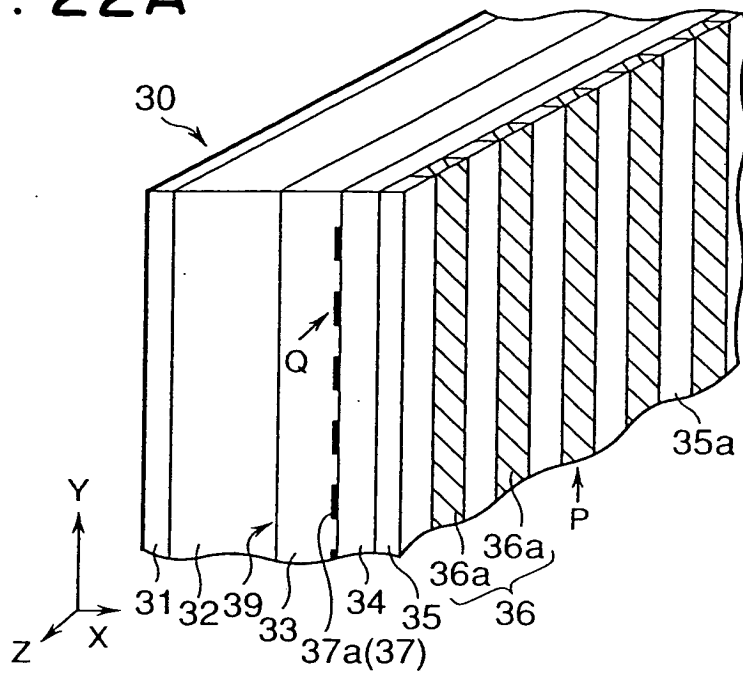


FIG. 21C

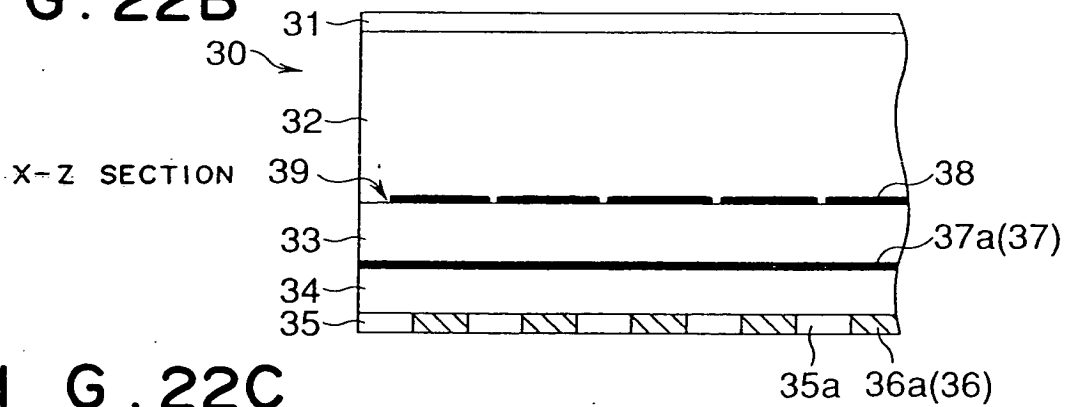




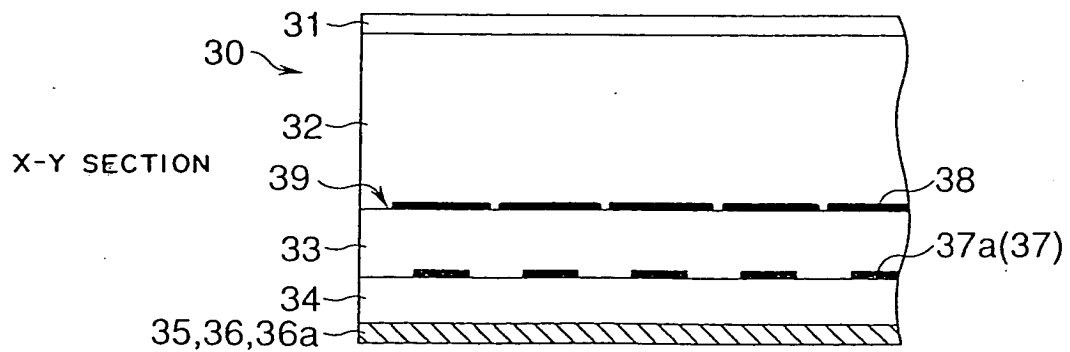
F I G . 22A



F I G . 22B

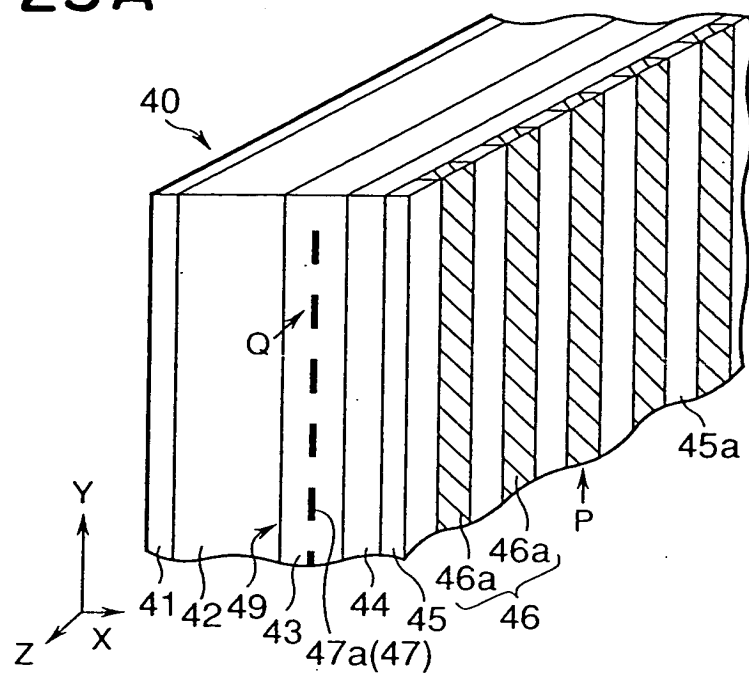


F I G . 22C

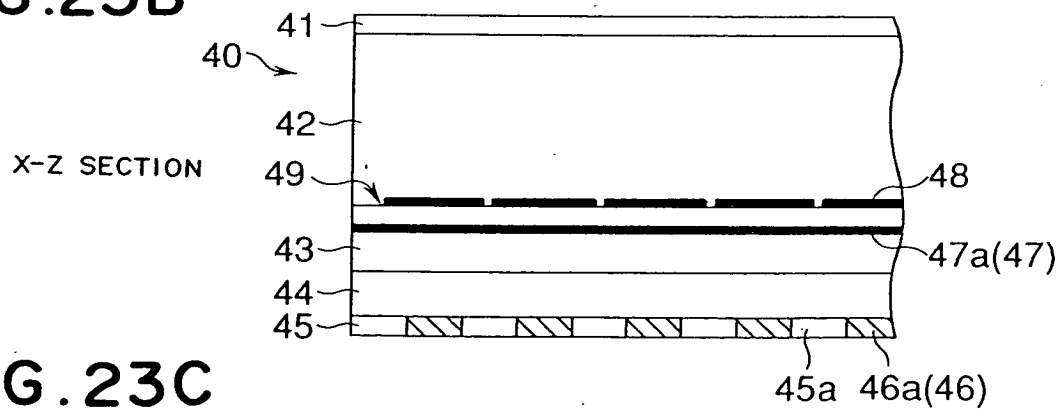




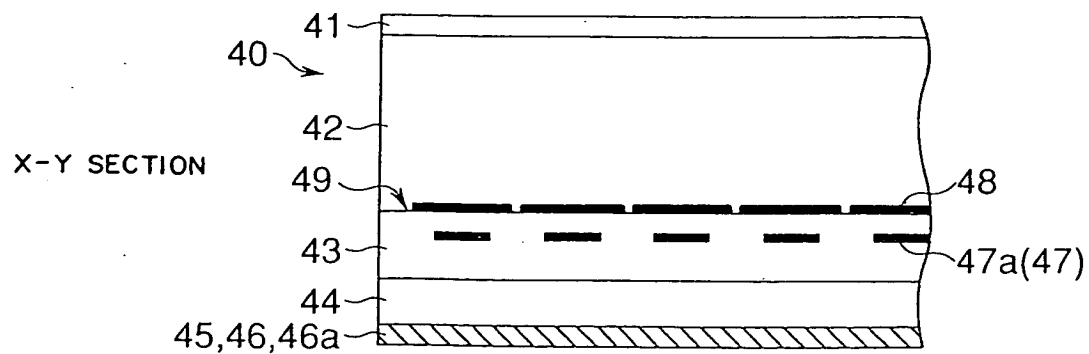
F I G . 23 A



F I G.23B



F I G. 23C



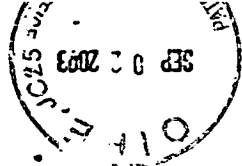


FIG. 24A

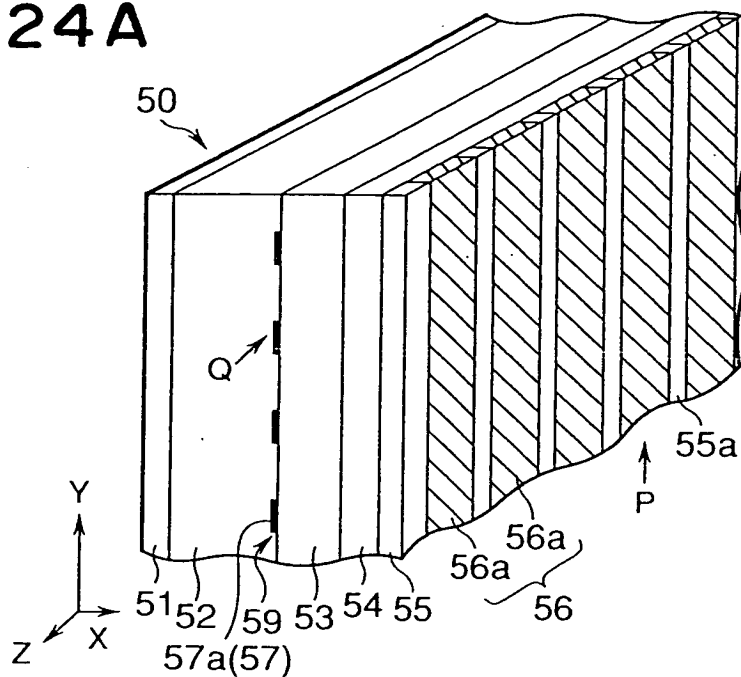


FIG. 24B

X-Z SECTION

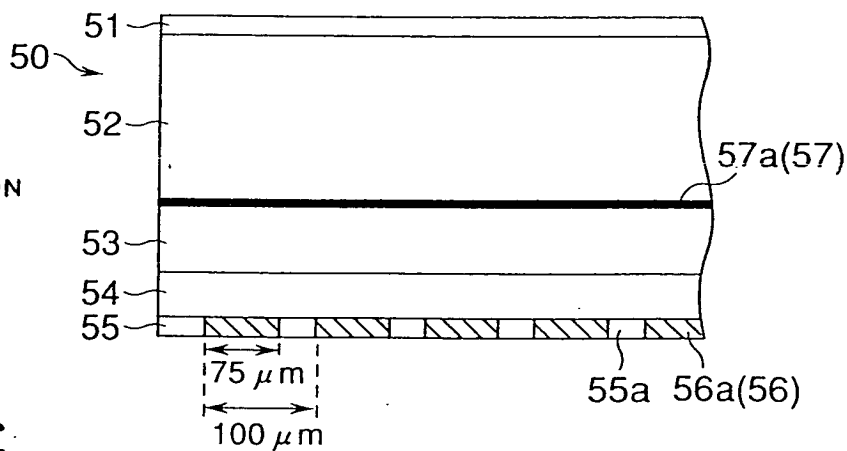
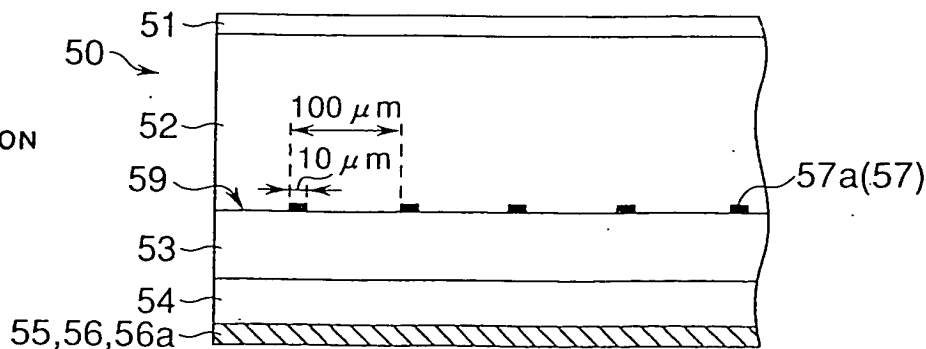


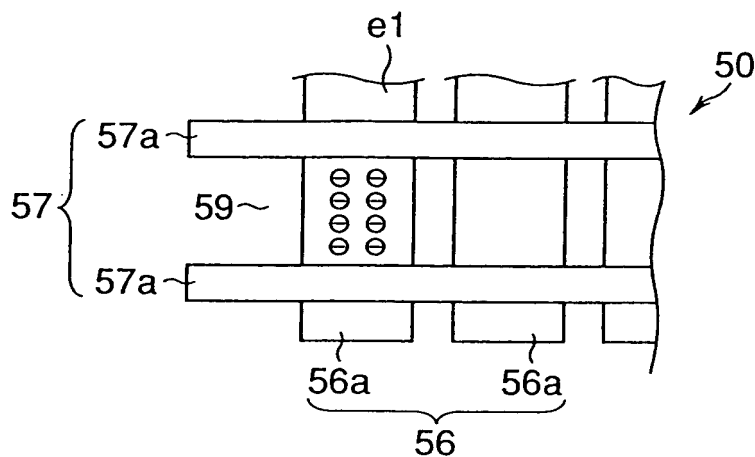
FIG. 24C

X-Y SECTION

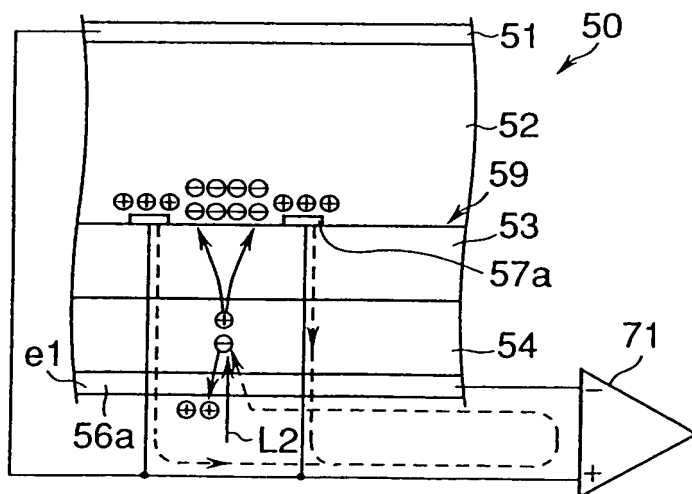




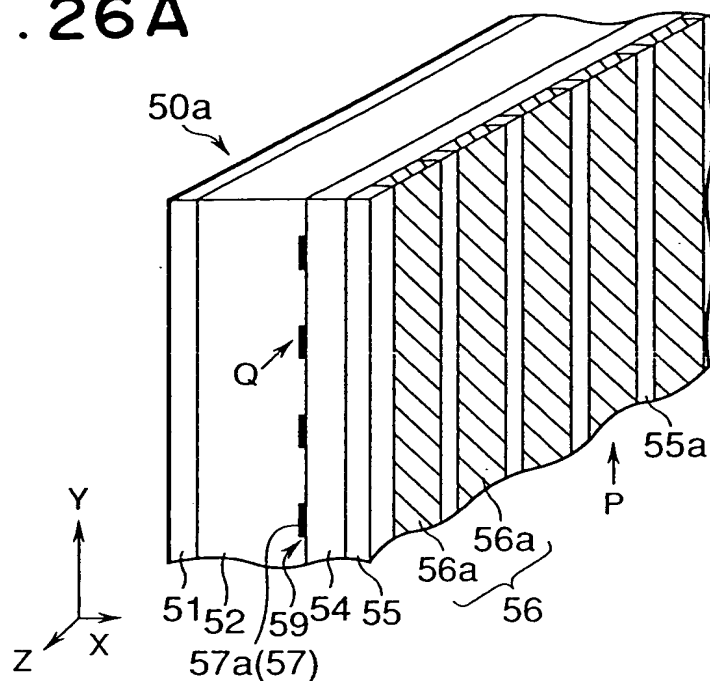
F I G . 25 A



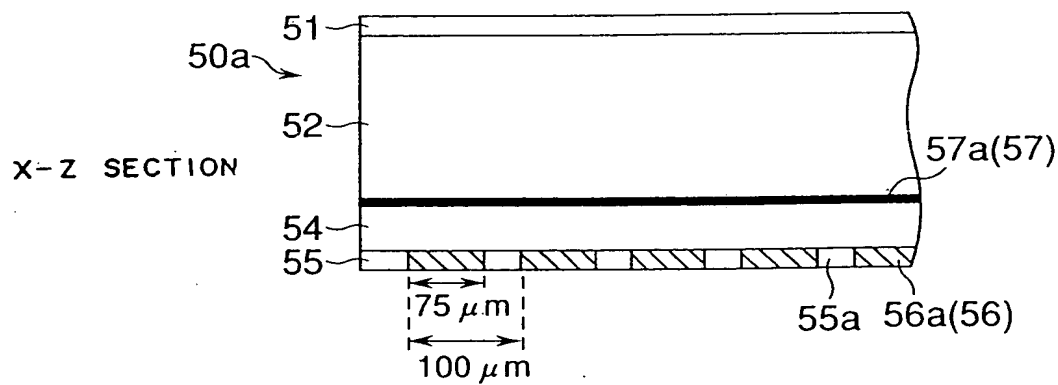
F I G . 25 B



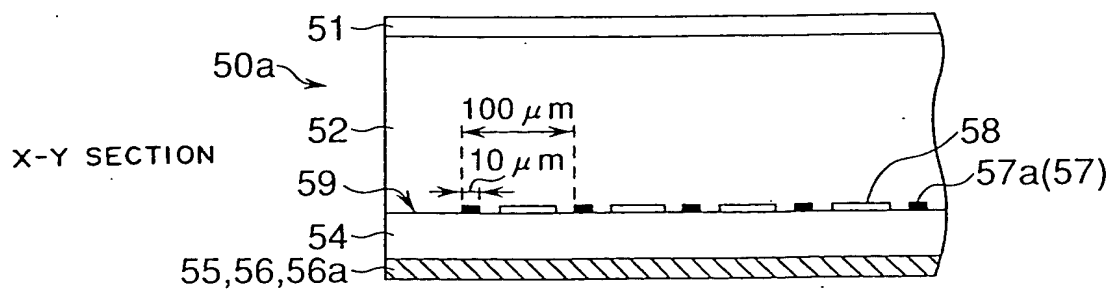
F I G . 26 A



F I G . 26B

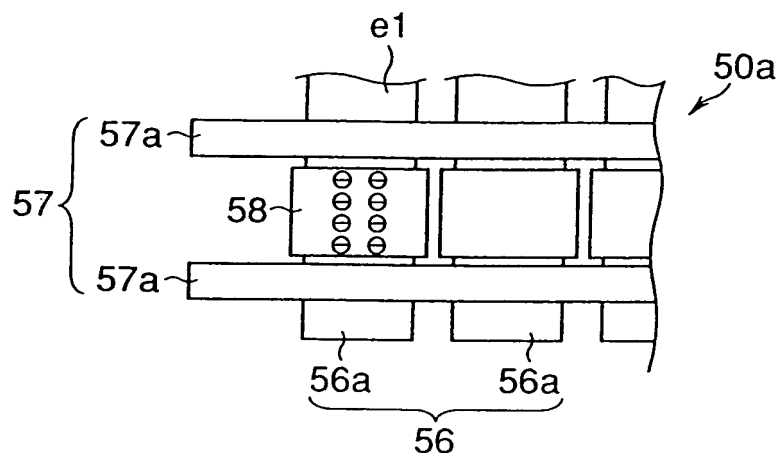


F I G . 26 C





F I G . 27A



F I G . 27B

